



# INSIGHT INFORMATION

Corporate profile Oil & Gas 



## INTRODUCTION

The oil & gas industry operates in a harsh and complex environment. Evolving knowledge and safety standards challenge us all to improve our operational safety and efficiency. This calls for bright minds and skilled labor. Through cooperation, integration and innovation we will continuously develop new and even more effective solutions.

For over 50 years, Rolloos has supplied the industry with effective solutions in CCTV, connectivity, weighing, control and safe load indication. As a third generation family business, we cherish our family of customers; we cherish you. Through quality, service and loyalty we nurture our family, so we'll be able to march into the future together. We are dedicated to enable you to improve your safety and efficiency with our innovative solutions for explosion proof and hazardous environments.

Joost Lasschuit  
Managing Director

1962



THE COMPANY WAS **FOUNDED**  
BY ARIE ROLLOOS SR.

2004



OUR NAME WAS **CHANGED**  
INTO TOP SIDE OFFSHORE  
TECHNOLOGY

2016



BACK TO THE ROOTS;  
THE ROLLOOS-BRAND IS  
**BACK**





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# INSIGHT INFORMATION



In our data-driven society every day it becomes easier to find or collect data information. But information in itself has little value.

You want to know its relation to activities, other data sources or challenges at hand. This way you will gain insights based on which you will be able to make the right decisions to optimize your operation. Then you leverage your information into valuable insights.

*“We provide you with insights that boost your safety and efficiency.”*

Implement a user-friendly safe load indicator, so your crane driver continuously knows how to prevent his crane from collapsing. Integrate your smoke detection system with our IP CCTV system to be able to act upon the real-time video of the affected area. Enable direct and mobile offshore communication between co-workers and onshore offices to increase the efficiency of your processes.



## OUR SOLUTIONS

We provide various solutions for specific situations in any kind of category such as:



Mobile  
Communication  
Solutions



Our IP CCTV  
Solutions



Crane safety  
solutions



Weighing  
Solutions



Cyber Security  
Solutions



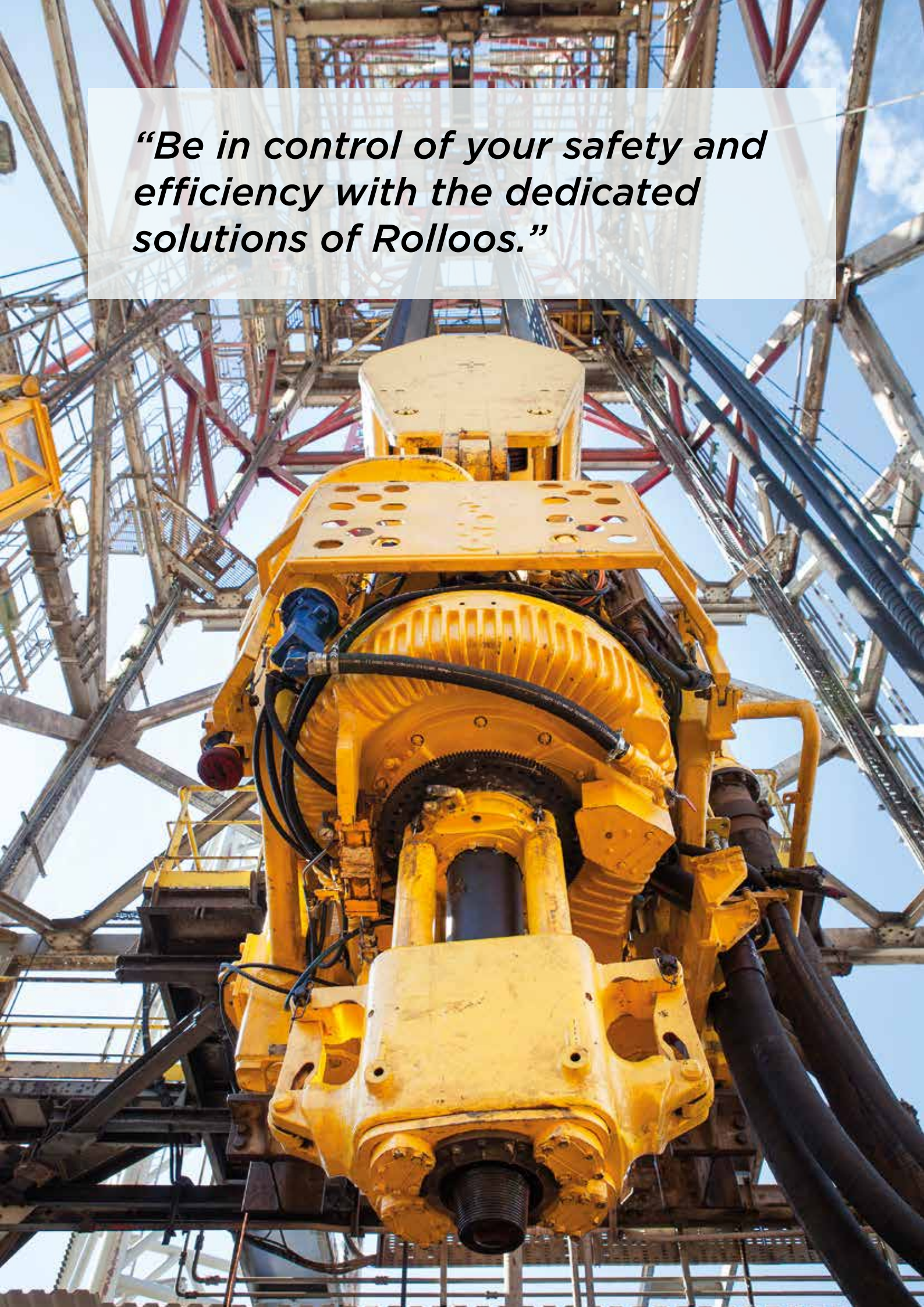
And much more



For all our solutions and more specific  
information visit our website at [www.rolloos.com](http://www.rolloos.com)



***“Be in control of your safety and efficiency with the dedicated solutions of Rolloos.”***





# IP CCTV SOLUTIONS





Operating in high risk and harsh environments is challenging. Visual information is often key for monitoring and safeguarding your processes, but is also hard to come by. Our sophisticated CCTV systems will give you all the images you need to guarantee a safe and efficient operation. It is modular, dedicated for harsh and remote environments, and will allow you to save time and money.

## SMART VIDEO ANALYTICS

Benefit from our video management software's advanced functionalities. You can run automated analyses based on preset specifications to detect breach of prohibited zones, increasing the safety and security.

Or you can share live feeds with personnel onshore or at other installations, cutting down on travel costs while increasing the efficiency. Needless to say, all images and automated alarms can be recorded. The possibilities are endless and fine-tuned to your specific needs and desires.

## BENEFITS

- ✓ Automated alarms through object tracking and detection
- ✓ Recording of operations or specific events
- ✓ Dedicated CCTV solutions for any operational challenge
- ✓ Suitable for harsh environments; available in Ex and Non-Ex
- ✓ Any type of application: complete platform, crane, offshore wind, subsea



*Ex Pan Tilt Camera with 432x zoom*



*Compact subsea camera*



## OUR IP CCTV SOLUTIONS

### CAMPRO IP CCTV SYSTEM

For monitoring and safeguarding the processes and installations in hazardous and non-hazardous areas, our CamPro IP CCTV system is the right solution. With our Ex and non-Ex cameras, you have a continuous view of the whole area, including places that are hard to reach or not directly visible.

The Rolloos CamPro system is an IP network CCTV solution, which consists of high quality fixed and zoom cameras, pan & tilt units, monitors and video management software. The system is easy to operate and can be expanded to an advanced warning system. All information can be recorded and reviewed at any time, from any location. Special features such as tracking & tracing, object recognition and motion detection further enhance the safety and efficiency of your operation.

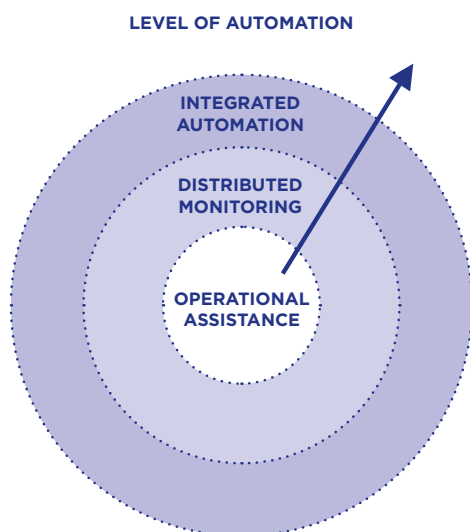
*“Automate  
your operation  
with our  
smart CCTV  
analytics.”*







Because of the IP structure, expanding the system with extra cameras and monitors is easy. Create a basic setup with a few cameras and monitoring stations or implement a custom designed system with 70 or more camera stations. The system is insensitive to EMC-radiation, assuring trouble free monitoring independent of the location.



## BENEFITS

- ✓ Increased efficiency by remote (onshore) access and advanced analytics
- ✓ Flexible system, easy to expand with additional cameras
- ✓ Simple control through dedicated monitoring stations
- ✓ Reduced cabling cost due to smart design
- ✓ Full view of the installation with ruggedized and Ex equipment





## CRANE CAMERA SYSTEMS

**Our Rolloos Crane Camera System is an indispensable visual aid for any crane operator. In many offshore operations it's even a mandatory safety solution.**

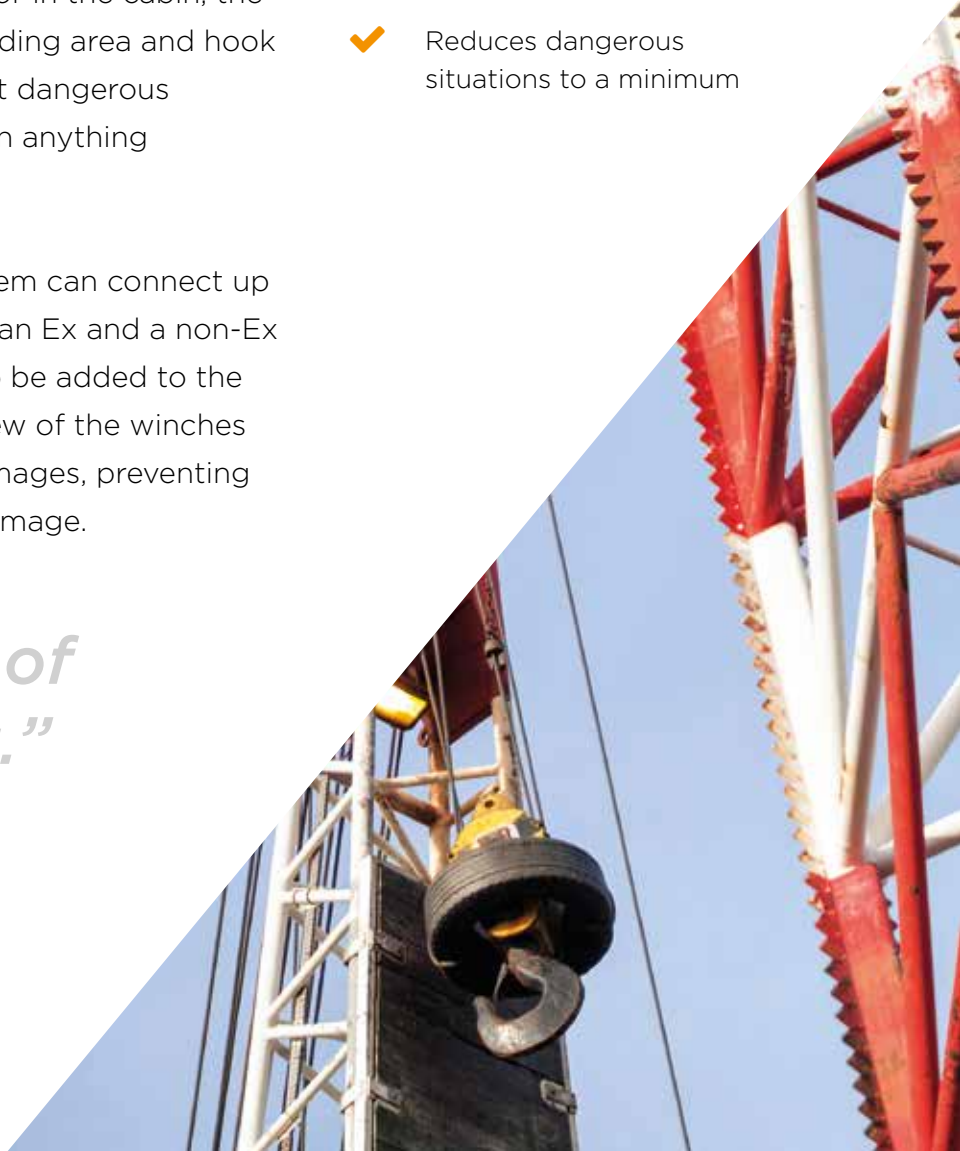
A camera in the boom tip always points down facing the load. Through a monitor in the cabin, the operator has a full view of his loading area and hook assembly. It allows him to prevent dangerous situations and be pro-active when anything unexpected happens.

Each Rolloos Crane Camera System can connect up to 4 cameras and comes in both an Ex and a non-Ex version. A winch camera can also be added to the camera system to give a clear view of the winches and alert the operator to any damages, preventing expensive delays due to cable damage.

## BENEFITS

- ✓ Bird-eye view of the load and loading area
- ✓ Allows operators to be pro-active in case of unexpected events
- ✓ Reduces dangerous situations to a minimum

*“Be in control of your heavy lift.”*







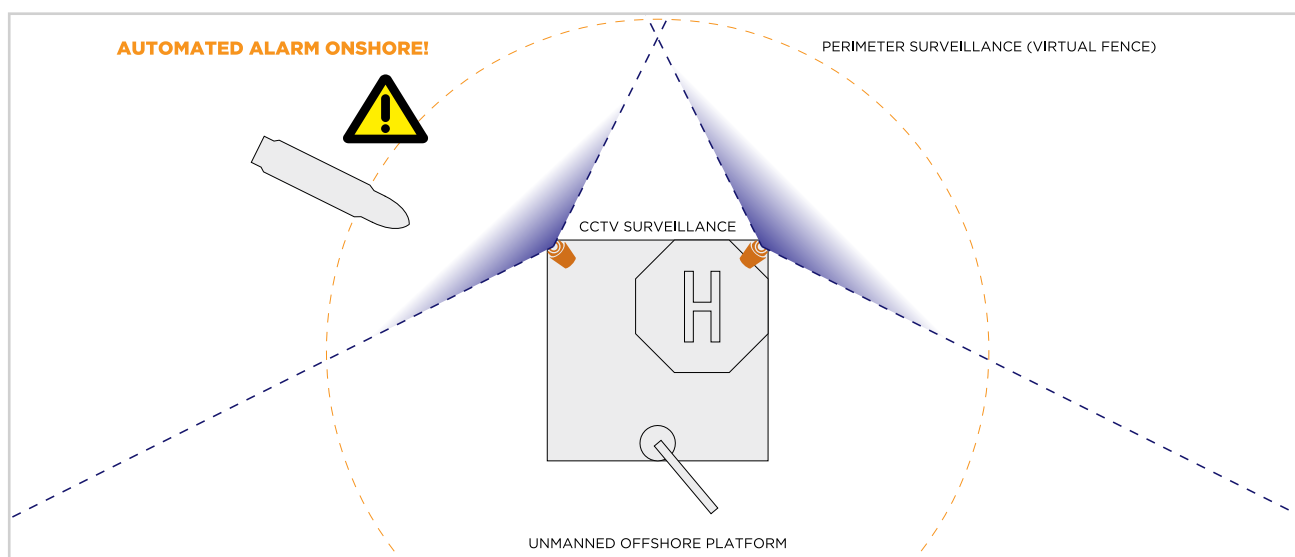
## OFFSHORE WIND FARM CCTV

**Wind farms with 80 or more turbines are remote and unmanned, and therefore require advanced monitoring solutions. Our dedicated CCTV solutions enable you to perform surveillance and monitoring (inspection) of your offshore windfarm substations and wind turbines.**

Increase safety with advanced analytics that are able to create a virtual fence (perimeter surveillance) around your substation. Approaching ships generate an automated alarm to warn your onshore crew. Integration with your smoke detection system forces the cameras to immediately point at the affected area.

## BENEFITS

- ✓ Increase safety with an virtual fence and smoke detection
- ✓ Increase efficiency by real-time onshore monitoring
- ✓ Create lone-worker protection
- ✓ Cameras on turbine and at critical locations at substation
- ✓ Dedicated offshore equipment





## SUBSEA CCTV MONITORING

**Having eyes underwater can be critical to your operation. The Rolloos Subsea Monitoring solutions offer a complete range of subsea cameras, pan & tilt units, lights and lasers that can be combined to fit your underwater vision needs.**

Subsea inspection and monitoring will increase the safety as it will bring problems to light early enough to be fixed. Early detection will lower the risk for calamities that could end in major damages and stagnation of production. The sooner a problem is discovered, the easier it can be fixed with lesser costs.

*“Ranging for 0 to 6.000 meter below sea level.”*


We build complete integrated systems and packages such as BOP inspection packages, guide wire systems, anchor bolster systems and deep-tow sleds. With a wide range of subsea products, applicable from 0 to 10.000 meter/33,000 feet below sea level, we are able to provide a solution for every subsea application!

## BENEFITS

- ✓ Prevent major damages and reduce maintenance cost through subsea inspections
- ✓ Increase operational efficiency with integrated systems and packages
- ✓ Clear subsea images with high resolution and low light cameras
- ✓ All possible depths: 0 to 6.000 meter/10,000 feet below sea level
- ✓ High output LED lights, rugged and powerful robotic positioning systems, high capacity recording devices and more





An aerial view of an offshore oil rig in the middle of a vast blue ocean. The sky is filled with large, white, fluffy clouds. The rig is a complex of metal structures with a tall derrick. A small boat is visible in the distance on the horizon.

***“Monitoring of your critical equipment will prevent unexpected downtime and reduce maintenance cost.”***

# COMPRO+ MOBILE COMMUNICATION





During offshore and hazardous operations, it's a challenge to communicate in a safe and efficient way. This is a huge contrast with public life, where smartphones increase our safety and efficiency every day. Our Rolloos ComPro+ Private GSM solution enables you to communicate with Ex-smartphones or tablets anywhere on your rig, above and below deck. We'll create a private GSM network that allows for wireless voice communication, data transfer and localization. This way we'll create your mobile worker.

## SYSTEM INTEGRATION

Through integration with your current PBX, LAN and Fire & Gas alarm systems we'll provide full connectivity. You are able to use wireless voice and data communication, and Bluetooth beacons enable you to localize your workers, allowing you to distribute automated alarms to dedicated workers in an affected area. This increases your safety and efficiency and prepares you for any operational challenge at hand.

## BENEFITS

- ✓ Direct 1-on-1 mobile communication
- ✓ Increased safety by tracking & tracing of workers in case of an emergency
- ✓ Group calls
- ✓ Increased efficiency through implementation of dedicated apps
- ✓ Private GSM network



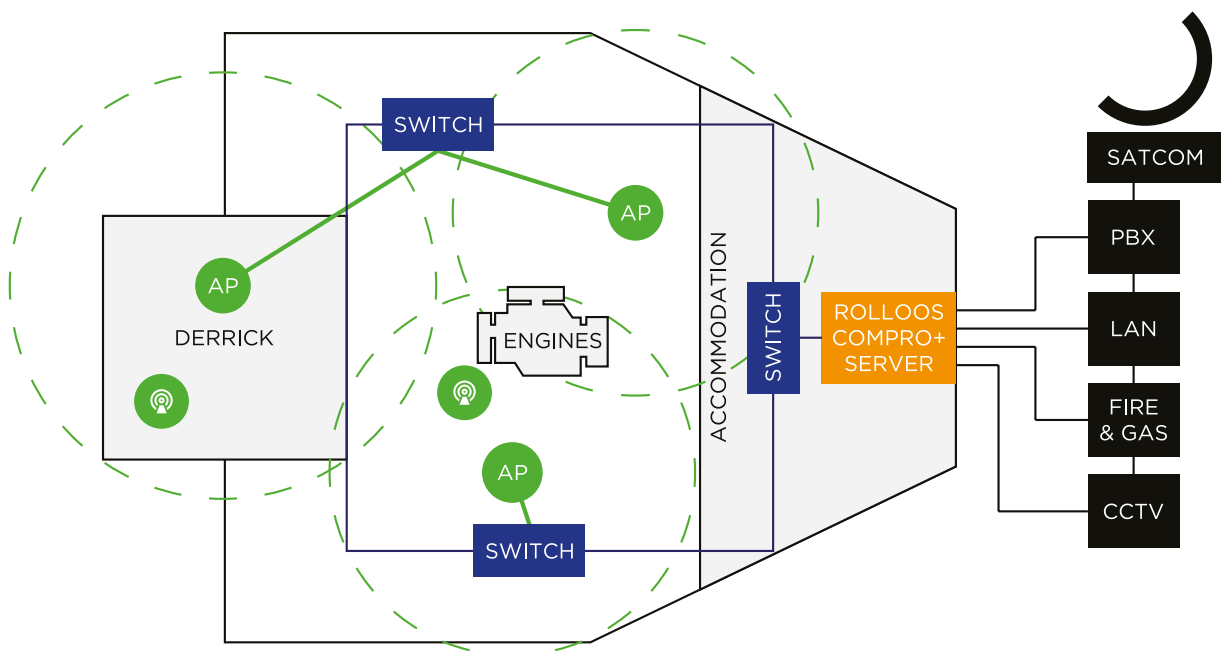
*“We'll provide full connectivity, increasing your safety and efficiency”*

*Dedicated safety app from SafetyChanger*

## NETWORK

The ComPro+ Private GSM solution creates a full GSM network on board of your ship or rig. At several strategic locations local access points (APs) ensure full coverage above and below deck.

Integration with your PBX, LAN and Fire & Gas systems ensures that anybody carrying a smartphone or tablet can communicate (voice & data) regardless their location on board.



### Legend



Acces Point



Bluetooth  
beacons



Fiber  
backbone



Universal  
gateway server



## DEVICES

- Devices suitable for harsh environments; available in Ex and Non-Ex
- Phones minimum 24 hours operating time
- Lone Worker Protection
- Compatible with LTE, WiFi, Bluetooth, NFC
- Hearing and protective devices available



*Ex-Handy 09*



*Smart-Ex 01*

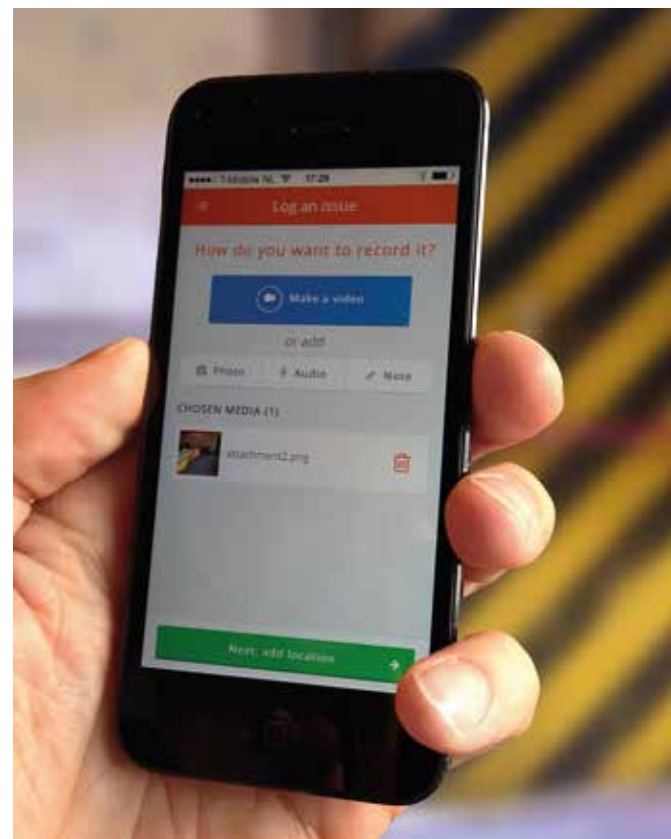


*Tab-Ex 01*

## APPLICATIONS

When working offshore, common cloud-based apps are not an option. Dedicated solutions that fulfil the task at hand need to be implemented.

- Mobile apps to access your local ERP data for inventory
- Access service history and maintenance manuals to increase first time fix
- E-Work permits to digitalize your paper trail
- Create safer workplaces with SafetyChanger: inspections, incidents, actions





# CYBER SECURITY



As the importance of digital information grows and the world becomes increasingly dependent on interconnected system, the damage a computer virus or hacker can cause grows exponentially. You don't want your drilling equipment to be hacked. In order to protect your operation against cyber criminality, cyber security needs to be addressed.

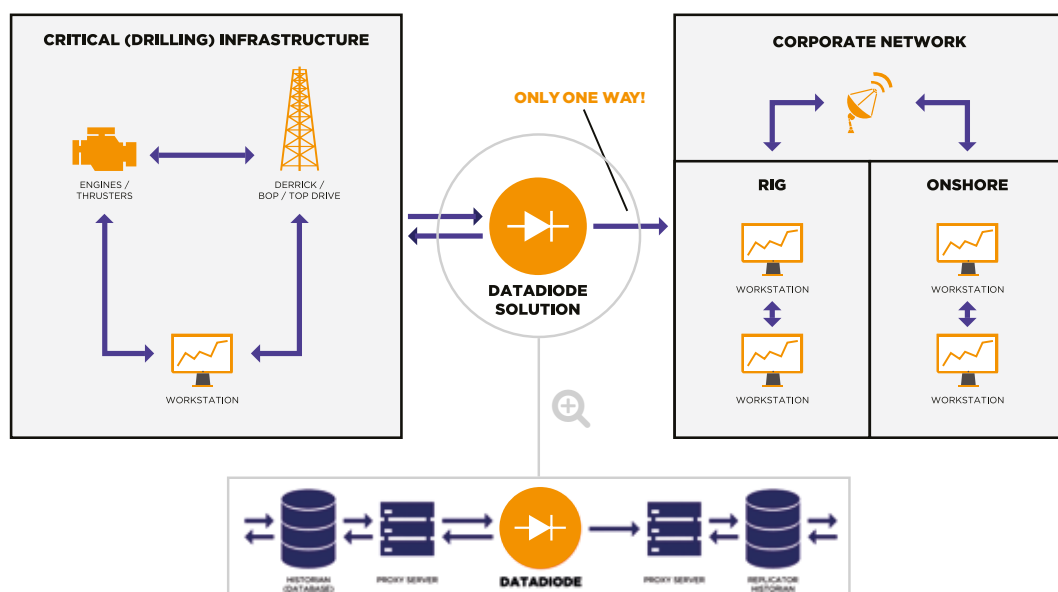
## DATA DIODE

The DataDiode one-way data connection protects the integrity and availability of critical assets in Industrial Control System (ICS) networks. Due to its one-way character it allows you to monitor your drilling operation or BOP, but ensures all cyber attacks are unsuccessful. Other than a Firewall, the DataDiode is a hardware solution that cannot be hacked.

The DataDiode is based on a light emitter and a light receiver. In front of the DataDiode data transfer is two-way, behind the data diode data transfer is one-way. By placing the DataDiode in front of your key systems you are assured these systems are protected against cyber-attacks of any kind.

## BENEFITS

- ✓ Maximum protection against viruses, hacking activity and espionage
- ✓ Hardware based solution; eliminates all software vulnerabilities
- ✓ Eliminates the risk of infection via information carriers
- ✓ Real-time access to your systems while being fully secured
- ✓ Inspect your current status and vulnerabilities with a **passive audit**





# CRANE SAFETY SOLUTIONS



During lifting activities it is important that all movements are performed safely. You'll prevent damages and accidents, and the financial consequences of both. Our safe load solutions help you guarantee the safety while you are still able to utilize the maximum capacity of your crane. You'll save time and money, which will satisfy both you and your customer.

## RATED CAPACITY INDICATION

With our rated capacity indicators, the driver has insight in the acting forces of the lifting process through a display in the cabin. The system determines the safe working range and blocks all unsafe movements. The lifting capacity throughout the lifting range and the actual load on hook are displayed on a monitor in the cabin. When approaching any of the limits, the driver is notified by an on-screen warning message. An audible signal can be added as extra safety measure to notify bystanders.

## BENEFITS

- ✓ Decreases risks and damages through clear and audible alarms
- ✓ Increases efficiency by being in control of your lifting operations
- ✓ All RCI data can be stored and analyzed for operational benefits



*i4500 rated capacity indicator*



# **WEIGHING SOLUTIONS**



Continuous knowledge of your drilling process increases both the safety and the efficiency of your operation. Our weighing solutions provide you with the necessary information on weight, weight limits and volume. You'll be able to work much more accurately, saving time and money.

## WEIGHPRO

WeighPro is a weighing system for hoppers, p-tanks, silos and pods. It gives you full insight into the contents of the tanks on your drilling installation, giving you full control over the basic ingredients for the cementing process.

The system combines the information from each individual tank into one userfriendly interface that can be accessed on monitors throughout the facility, e.g. in the control room, the jacking house or on the bridge. It comes with a graphic interface that shows the status of each tank in either a quick or sectional overview, giving you clear insight into the contents of all tanks.

## BENEFITS

- ✓ Real-time insight in the contents of you tanks
- ✓ Prevents slow-down of the drill process due to lack of ingredients for the cementing process
- ✓ Enhances safety when moving the installation

*Load cell for e.g. hoppers, p-tanks, silos weighing*





# ABOUT US





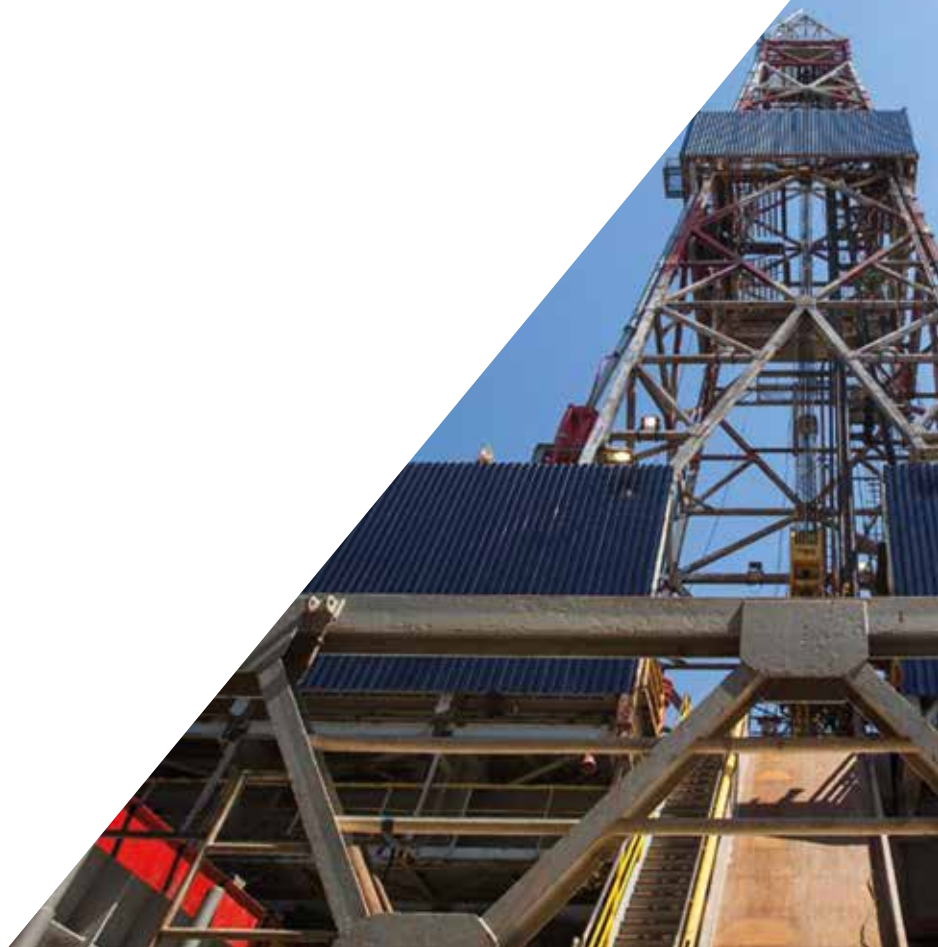
Rolloos contributes to a more efficient and safe heavy industry through innovation and excellent service. We aim to create solutions that provide you with the best possible insights to make your operation excel. Whether that is a precise weight indication of your load, automated alarms and image detection within your CCTV system or direct communication through our connectivity solutions: Rolloos leverage accurate, fast and secure information into valuable insights. With Rolloos you improve your safety and efficiency.

## **MISSION**

To make working in harsh and hazardous industries more efficient and safe.

## **VISION**

Rolloos strives to create innovative, integrated solutions that leverage information into insights. It is our goal to utilize these insights and make them available across all aspects of harsh and hazardous operations. To be a strategic partner to our customers for CCTV, mobile communication, weighing, crane safety and industrial cyber security.





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